

# LG NeON<sup>®</sup>R

LG375Q1C-V5

60

## 375W

LG NeON<sup>®</sup>R is a powerful solar module that provides world-class performance. A new cell structure that eliminates electrodes on the front maximizes the utilization of light and enhances reliability.

LG NeON<sup>®</sup>R is a result of LG's efforts to increase customer's values beyond efficiency. LG NeON<sup>®</sup>R features enhanced durability, performance under real-world conditions, an enhanced warranty and aesthetic design suitable for roofs.



## Features



### Aesthetic Roof

LG NeON<sup>®</sup>R has been designed with aesthetics in mind: the lack of any electrodes on the front creates an improved, modern aesthetic.



### Extended Product Warranty

LG has extended the product warranty of the NeON<sup>®</sup>R to 25 years, which is top level in the industry.



### Enhanced Performance Warranty

The LG NeON<sup>®</sup>R has an enhanced performance warranty. After 25 years, LG NeON<sup>®</sup>R is guaranteed at least 90.8% of initial performance.



### More generation per square meter

The LG NeON<sup>®</sup>R has been designed to significantly enhance its output, making it efficient even in limited space.

When you go solar, ask for the brand you can trust: LG Solar

## About LG Electronics

LG Electronics is a global leader in electronic products in the clean energy markets by offering solar PV panels and energy storage systems. The company first embarked on a solar energy source research program in 1985, supported by LG Group's vast experience in the semi-conductor, LCD, chemistry and materials industries. In 2010, LG Solar successfully released its first MonoX<sup>®</sup> series to the market, which is now available in 32 countries. The NeON<sup>®</sup> (previous MonoX<sup>®</sup> NeON), NeON<sup>®</sup>2, NeON<sup>®</sup>2 BiFacial won the "Intersolar AWARD" in 2013, 2015 and 2016, which demonstrates LG's leadership and innovation in the solar industry.

**LG Solar**

## LG375Q1C-V5

### General Data

|                                  |  |
|----------------------------------|--|
| Cell Properties (Material/Type)  | Monocrystalline / N-type               |
| Cell Maker                       | LG                                     |
| Cell Configuration               | 60 Cells (6 x 10)                      |
| Module Dimensions (L x W x H)    | 1,700mm x 1,016mm x 40mm               |
| Weight                           | 17.5 kg                                |
| Glass (Thickness/Material)       | 2.8mm / Tempered Glass with AR Coating |
| Backsheet (Color)                | White                                  |
| Frame (Material)                 | Anodized Aluminium                     |
| Junction Box (Protection Degree) | IP68 with 3 Bypass Diodes              |
| Cables (Length)                  | 1,000mm x 2EA                          |
| Connector (Type/Maker)           | MC 4 / MC                              |

### Certifications and Warranty

|                          |  |
|--------------------------|--|
| Certifications           | IEC 61215-1/-1-1/2:2016, IEC 61730-1/2:2016, UL 1703 |
|                          | ISO 9001, ISO 14001, ISO 50001                       |
|                          | OHSAS 18001  |
| Salt Mist Corrosion Test | IEC 61701:2012 Severity 6                            |
| Ammonia Corrosion Test   | IEC 62716:2013                                       |
| Module Fire Performance  | Type 1 (UL 1703)                                     |
| Fire Rating              | Class C (UL 790, ULC / ORD C 1703)                   |
| Product Warranty         | 25 Years   |
| Output Warranty of Pmax  | Linear Warranty*                                     |

\*Improved: 1st year 98%, from 2-24th year: 0.3%/year down, after 25th year: 90.8%

### Temperature Characteristics

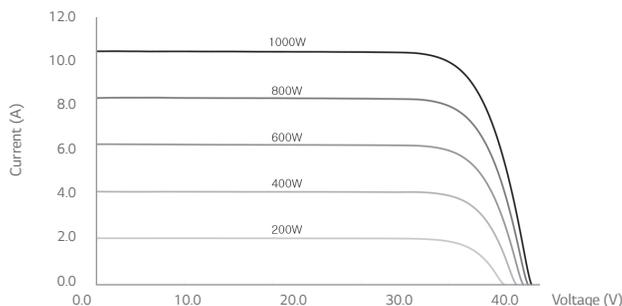
|       |        |        |
|-------|--------|--------|
| NMOT* | [°C]   | 44 ± 3 |
| Pmax  | [%/°C] | -0.30  |
| Voc   | [%/°C] | -0.24  |
| Isc   | [%/°C] | 0.037  |

\*NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m<sup>2</sup>, Ambient temperature 20 °C, Wind speed 1 m/s, Spectrum AM 1.5

### Electrical Properties (NMOT)

|                             |             |      |
|-----------------------------|-------------|------|
| Model                       | LG375Q1C-V5 |      |
| Maximum Power (Pmax)        | [W]         | 282  |
| MPP Voltage (Vmpp)          | [V]         | 37.1 |
| MPP Current (Impp)          | [A]         | 7.61 |
| Open Circuit Voltage (Voc)  | [V]         | 40.3 |
| Short Circuit Current (Isc) | [A]         | 8.72 |

### I-V Curves



### Electrical Properties (STC\*)

|                                   |             |        |
|-----------------------------------|-------------|--------|
| Model                             | LG375Q1C-V5 |        |
| Maximum Power (Pmax)              | [W]         | 375    |
| MPP Voltage (Vmpp)                | [V]         | 37.2   |
| MPP Current (Impp)                | [A]         | 10.09  |
| Open Circuit Voltage (Voc, ± 5%)  | [V]         | 42.8   |
| Short Circuit Current (Isc, ± 5%) | [A]         | 10.83  |
| Module Efficiency                 | [%]         | 21.7   |
| Power Tolerance                   | [%]         | 0 ~ +3 |

\*STC (Standard Test Condition): Irradiance 1000 W/m<sup>2</sup>, Cell temperature 25 °C, AM 1.5  
\*\*Measure Tolerance: ± 3%

### Operating Conditions

|                              |          |              |
|------------------------------|----------|--------------|
| Operating Temperature        | [°C]     | -40 ~ +90    |
| Maximum System Voltage       | [V]      | 1,000        |
| Maximum Series Fuse Rating   | [A]      | 20           |
| Mechanical Test Load (Front) | [Pa/psf] | 5,400 / 113  |
| Mechanical Test Load (Rear)  | [Pa/psf] | 4,000 / 83.5 |

Mechanical Test Load 5,400Pa / 4,000Pa based on IEC 61215-2 : 2016  
(Test Load = Design Load x Safety Factor (1.5))

### Packaging Configuration

|   |      |                       |
|---|------|-----------------------|
| Number of Modules per Pallet            | [EA] | 25                    |
| Number of Modules per 40ft HQ Container | [EA] | 650                   |
| Packaging Box Dimensions (L x W x H)    | [mm] | 1,750 x 1,120 x 1,221 |
| Packaging Box Gross Weight              | [kg] | 473                   |

### Dimensions (mm/inch)

